



An Energy Efficiency Workshop & Exposition

Kansas City, Missouri

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NCTR CONTRACT SOURCE

- **Utility Contract with GSA Under Areawide Contract with Entergy Arkansas, Inc.**
- **NCTR was authorized to contract on a sole source basis with Entergy for electric services, including energy conservation projects**
- **Exhibit D - Authorization for Energy Management**



NCTR Agreement

- Includes FAR specific terms and conditions
- Includes finance and payment provisions
- Issued as one Energy Conservation Measure with task orders
- Task orders issued for each Energy Conservation Project (ECP) with work initiated and accepted by phases



Lessons Learned - Part I

- **Rearrange your thinking**
- **Remove your paradigm**
- **There's more than one way to negotiate a contract**
 - Uniform Contract format not mandatory**
- **Finance negotiations are different: use FEMP resources**



NCTR Phases

- Preliminary audit
- Feasibility study with schematic design and detailed audit
- Engineering and design with detailed design
- Acquisition which includes solicitation and evaluation, payback re-evaluation and, as appropriate, selection of subcontractor
- Implementation which includes construction, administration and daily observation
- Operation and maintenance



NCTR ECP/ECM

- **Twenty-six ECPs identified in preliminary energy audit**
- **Nineteen selected for implementation of first ECM**
- **Approximately 23% reduction in energy consumption**
- **Estimated construction \$9 million in infrastructure energy conserving projects**



Identified NCTR Projects

Power Factor Correction

Well Pump Replacement

HVAC Modifications

District Cooling System

Double Buss Switchgear and Switchgear Monitoring System

Steam Trap Maintenance Program

Auto Boiler Blowdown Heat Recovery

Direct Digital Controls Retrofit and Energy Management

Systems Replacements

High Efficiency Lighting



Identified NCTR Projects - Cont'd

Building Envelope Modifications

High Efficiency Motors

Exhaust Air Energy Recovery

Energy Management Services - Electricity Rate Change

Energy Management Services - Gas Transportation



Actual NCTR Tasks

- **Power Factor Correction and Cooling Tower Design**
- **Cooling Tower Implementation**
- **Feasibility Studies for: electric rate analysis; natural gas management; double buss switchgear and monitoring system; additional power factor correction; high efficiency lighting; steam trap and building envelop; district cooling; direct digital controls retrofit and energy management systems replacement**
- **Engineering and Design for high efficiency lighting, additional power factor correction, district cooling**
- **Implementation phases for: natural gas transportation and steam trap**



LESSONS LEARNED - PART II

- **Benefits from energy and cost savings begin immediately after ECP is completed. You're part of a winning team!**
- **Flexibility in task arrangements, e.g., you can arrange for all feasibility studies to be done at once; thereby allowing you to be able to pick and choose, if warranted.**
- **It's been our experience that rate negotiations per task are more cost effective than setting the rate in the master agreement.**



“I see in your future... more energy savings...!”

